

## Product datasheet for RC202259

### A4GALT (NM\_017436) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	A4GALT (NM_017436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A4GALT
Synonyms:	A4GALT1; A14GALT; Gb3S; P(k); P1; P1PK; PK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202259 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGTCCAAGCCCCGACCTCCTGCTGCGGCTGCTCCGGGGCGCCCAAGGCAGCGGGTCTGCACCCTGT  
TCATCATCGGCTTCAAGTTCACGTTTTTCGTCCTCATGATCTACTGGCACGTTGTGGGAGAGCCAA  
GGAGAAAGGGCAGCTCTATAACCTGCCAGCAGAGATCCCCTGCCACCTTGACACCCCCACCCACCC  
TCCCACGGCCCCACTCCAGGCAACATCTTCTTCTGGAGACTTACAGCCGGACCAACCCCAACTTCTGT  
TCATGTGCTCGGTGGAGTCGGCCGCCAGAACTCACCCGAATCCCACGTGCTGGTCTGATGAAAGGGCT  
TCCGGGTGGCAACGCCTCTCTGCCCGGCACCTGGGCATCTCACTTCTGAGCTGCTTCCGAATGTCCAG  
ATGCTCCCCTGGACCTGCGGGAGCTGTTCCGGGACACACCCCTGGCCGACTGGTACGCGGCCGTGCAGG  
GGCGTGGGAGCCCTACCTGCTGCCCGTCTCCGACGCCTCCAGGATCGCACTCATGTGGAAGTTCGG  
CGGCATCTACCTGGACACGGACTTCATTGTTCTCAAGAACCTGCGGAACCTGACCAACGTGCTGGGCACC  
CAGTCCCCTACGTCCTCAACGGCGCTTCTGGCCTTCGAGCGCCGGCAGGTTTCATGGCGCTGTGCA  
TGCGGGACTTCGTGGACCACTACAACGGCTGGATCTGGGGTACCAGGGCCCGCAGCTGCTCACGGGGT  
CTTCAAGAAGTGGTGTTCATCCGCAGCCTGGCCGAGAGCCGCGCTGCCGCGCGTCAACCCCGAGGAGC  
CCTGAGGCCTTACCCATCCCCTGGCAGGACTGGAAGAAGTACTTTGAGGACATCAACCCCGAGGAGC  
TGCCGCGGCTGCTCAGTGCCACCTATGCTGTCCACGTGTGGAACAAGAAGGCCAGGGCACGCGGTTTCA  
GGCCACGTCCAGGGCACTGCTGGCCAGCTGCATGCCCGTACTGCCCCACGACGCACGAGGCCATGAAA  
ATGTAATTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC202259 protein sequence  
Red=Cloning site Green=Tags(s)

MSKPPDLLLRLLRGAPRQVCTLFIIGFKFTFFVSIMIYWHVVGEPKEKGQLYNLPAEIPCPTLTPPTPP  
 SHGPTPGNIFFLETSDRTNPNFLFMCVESAARTHPESHVLVLMKGLPGGNASLPRHLGISLLSCFPNVQ  
 MLPLDLRELFRDTPLADWYAAVQGRWEPYLLPVLSDASRIALMWKFGGIYLDTFIVLKNLRNLTNVLTG  
 QSRVVLNGAFLAFERRHEFMALCMRDFVDHYNGWIWGHQGPQLL TRVFKKWC SIRSLAESRACRGVTTLP  
 PEA FYPIPWQDWKKYFEDINPEELPRLLSATYAVHVWNKKSQGRFEATSRALLAQLHARYCPTTHEAMK  
 MYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6130\\_e03.zip](https://cdn.origene.com/chromatograms/mk6130_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_017436

**ORF Size:** 1059 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_017436.7](#)

**RefSeq Size:** 2106 bp

**RefSeq ORF:** 1062 bp

**Locus ID:** 53947

**UniProt ID:** [Q9NPC4](#)

**Cytogenetics:** 22q13.2

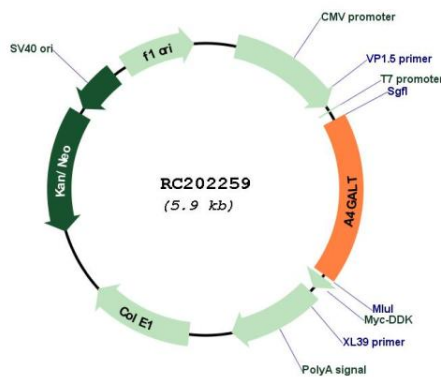
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - globo series, Metabolic pathways

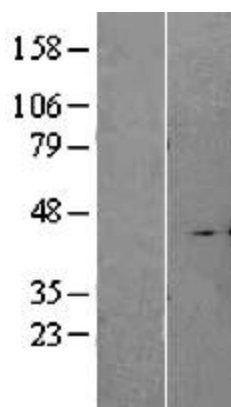
**MW:** 40.5 kDa

**Gene Summary:** The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. This protein, a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

### Product images:



Circular map for RC202259



Western blot validation of overexpression lysate (Cat# [LY402588]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).